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Notice of Allowability	Application No.	Applicant(s)	
	09/874,310	CHIBA, KENICHIRO	
	Examiner	Art Unit	
	Aslan Ettehadieh	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/20/2006.
2. ☒ The allowed claim(s) is/are 2-6 and 8-29 which are now renumbered claims 1-27.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Response to Amendment

1. Applicant's arguments, see page 23, filed 3/20/2006, with respect to claims 2 and 8 have been fully considered and are persuasive. The rejection of claims 2 and 8 has been withdrawn.
2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Allowable Subject Matter

3. Claims 2 – 6 and 8 – 29 are allowed. The following is an examiner's statement of reasons for allowance:
4. Regarding claim 2, a comprehensive search of prior art of record failed to teach, either alone or in combination, a Rake reception apparatus having a delay lock loop circuit comprising a means of at the time of maximum ratio combining in said RAKE combiner, the finger circuit on which the maximum weighting is placed is selected based on the weighting information afforded to an output of said finger circuit as recited in claim 2 and in combination with other elements of the claim.
5. Regarding claim 8, a comprehensive search of prior art of record failed to teach, either alone or in combination, a Rake reception apparatus having a delay lock loop circuit, a change over circuit, and a control circuit comprising the control

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circuit selects the finger circuit, for which the maximum weighting is put, based on the finger-circuit-based weighting information output by the RAKE combiner, said control circuit commanding said changeover circuit to effect the switching to cause the DLL circuit to track the optimal finger circuit as recited in claim 8 and in combination with other elements of the claim.

6. Regarding claim 15, a comprehensive search of prior art of record failed to teach, either alone or in combination, a Rake reception apparatus having a delay lock loop circuit, a change over circuit, and a control circuit comprising the value of the shift register constituting the PN sequence generator of the selected one of the plural finger circuits is routed through the changeover circuit to the DLL circuit and then in the DLL circuit it is set to a value of the shift register input through the changeover circuit to align the phase of the PN sequence generator in the DLL circuit with the phase of the PN sequence generator in the selected one of the finger circuits as recited in claim 15 and in combination with other elements of the claim.

7. Regarding claim 17, a comprehensive search of prior art of record failed to teach, either alone or in combination, a Rake reception apparatus having a delay lock loop circuit, a change over circuit, and a control circuit comprising the DLL circuit includes a PN sequence generator for generating and outputting an early PN code leading the PN code used in said finger circuit in timing and for generating and outputting a late PN code lagging the PN code used in the finger circuit in timing where first and second multipliers multiplying the reception data with the early PN code and late PN code, respectively, first and second filters fed

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with outputs of said first and second multipliers, respectively, first and second detectors detecting outputs of the first and second filters, respectively, a subtractor subtracting the output of said second detector from the output of said first detector, a loop filter smoothing the output of the subtractor, a VCO fed with the output of the loop filter as a control voltage, a shift register of the PN sequence generator of being loaded with a value of a shift register of the PN sequence generator of the one selected finger circuit through said changeover circuit, an output clock of the VCO being supplied to said PN sequence generator in the DLL circuit while being fed as a control clock to each of said finger circuits as recited in claim 17 and in combination with other elements of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aslan Ettehadieh whose telephone number is (571) 272-8729. The examiner can normally be reached on Monday - Friday, 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammed Ghayour can be reached on (571) 272-3021.


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The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aslan Ettehadieh
Examiner
Art Unit 2637

AE


MOHAMMED SHAYOUR
SUPERVISORY PATENT EXAMINER